Date=17/11/2020
Lecture By=Manish Mahant
Subject ⇒States And Props

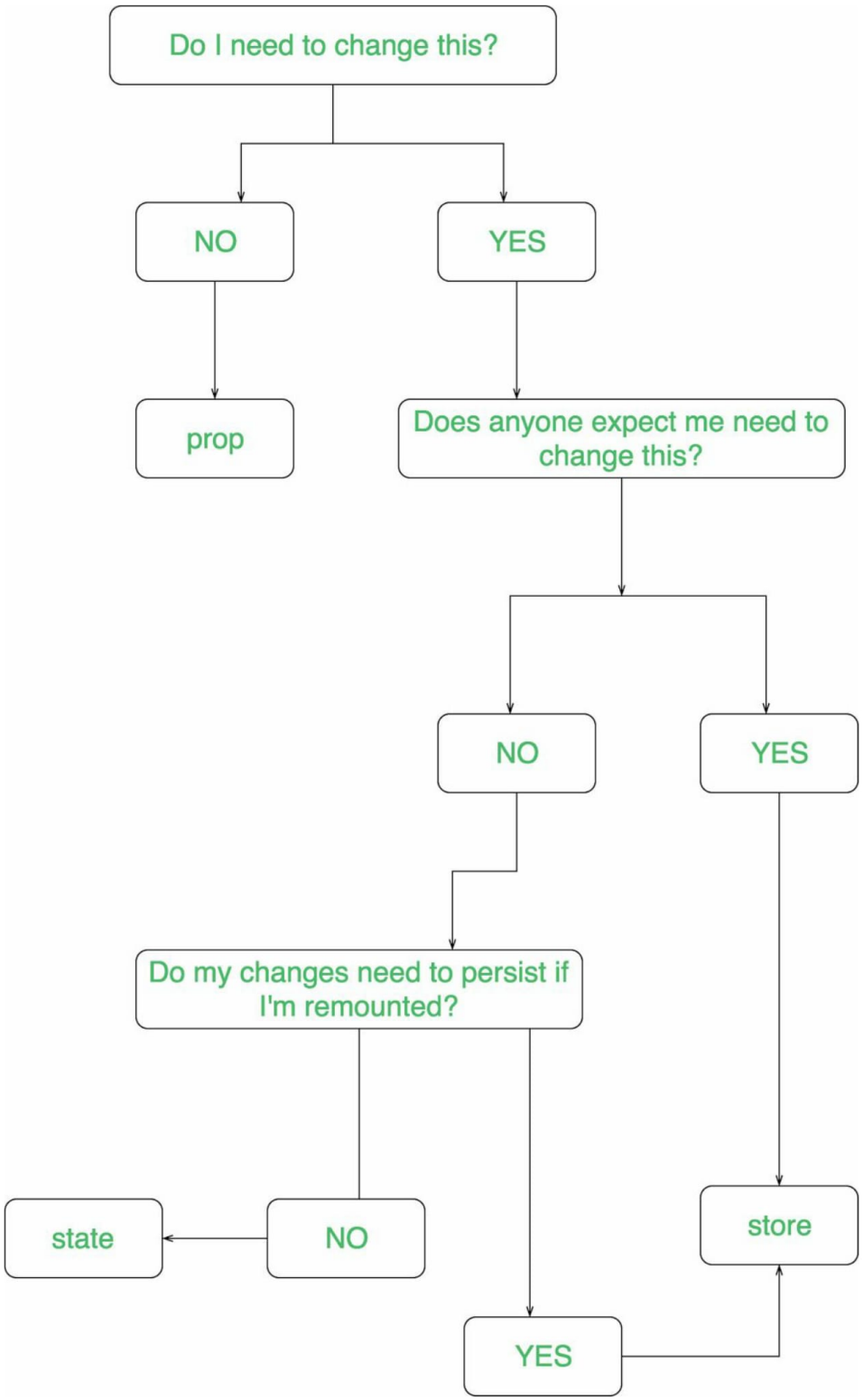
IN PREVIOUS LECTURE **(QUICK RECAP) Date-16/11/2020**	**In Today's Lecture (Overview)**

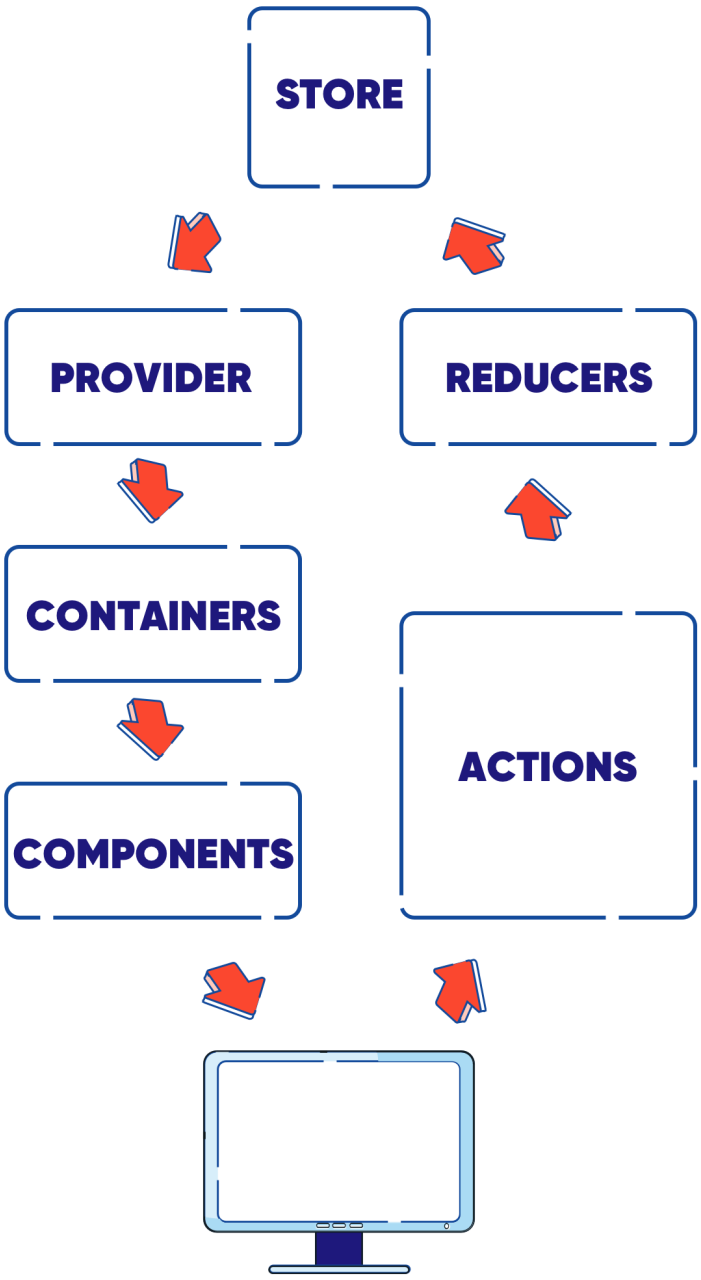
React State

React components has a built-in `state` object.

The `state` object is where you store property values that belongs to the component.

When the `state` object changes, the component re-renders.


Do I need to change this?
NO
YES
prop
Does anyone expect me need to change this?
NO
YES
Do my changes need to persist if I'm remounted?
state
NO
store
YES


STORE
PROVIDER
REDUCERS
CONTAINERS
ACTIONS
COMPONENTS

Creating the `state` Object

The `state` object is initialized in the constructor:

Example:

Specify the `state` object in the constructor method:

```
class Car extends React.Component {
  constructor(props) {
    super(props);
    this.state = {brand: "Ford"};
  }
  render() {
    return (
      <div>
        <h1>My Car</h1>
      </div>
    );
  }
}
```

The `state` object can contain as many properties as you like:

Example:

Specify all the properties your component need:

```
class Car extends React.Component {
    constructor(props) {
      super(props);
      this.state = {
        brand: "Ford",
        model: "Mustang",
        color: "red",
        year: 1964
      };
    }
    render() {
```

```
    return (
      <div>
        <h1>My Car</h1>
      </div>
    );
  }
}
```

Using the `state` Object

Refer to the `state` object anywhere in the component by using the `this.state.propertyname` syntax

Example:

Refer to the `state` object in the `render()` method:

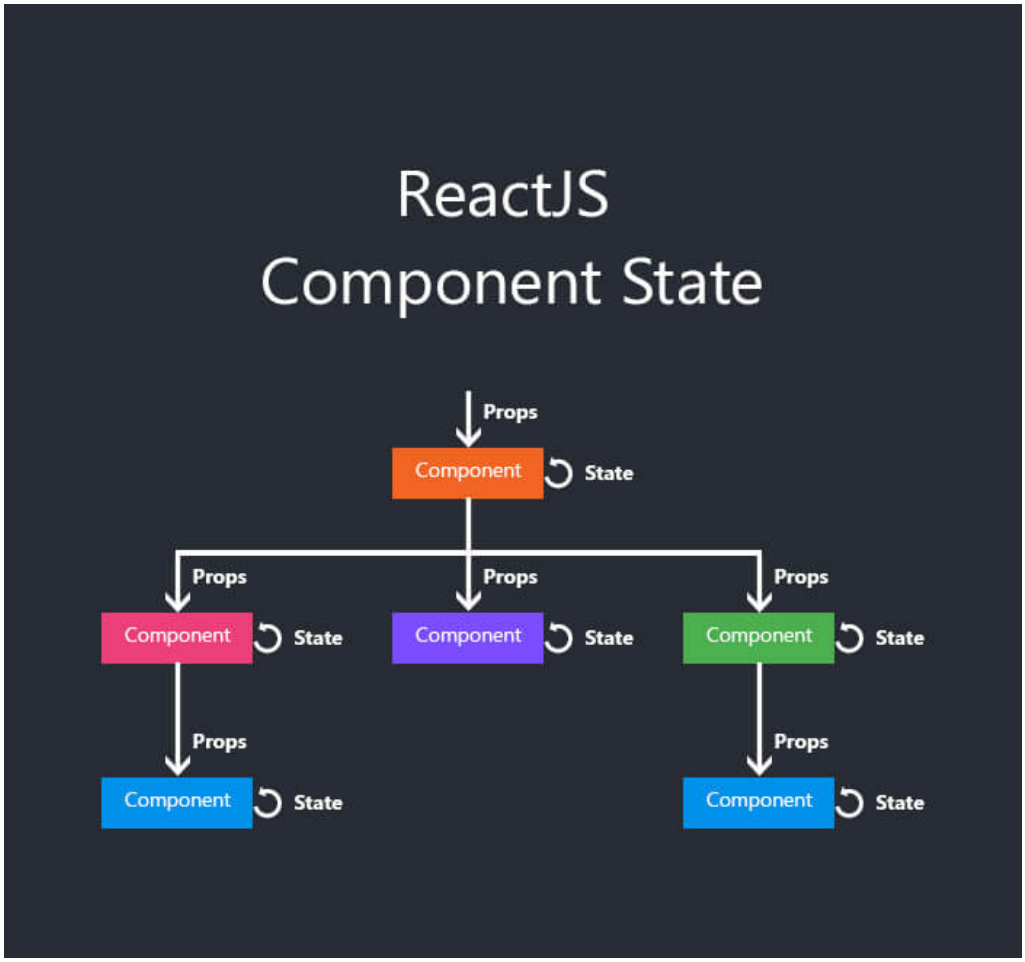
```
class Car extends React.Component {
    constructor(props) {
        super(props);
        this.state = {
            brand: "Ford",
            model: "Mustang",
            color: "red",
            year: 1964
        };
    }
    render() {
        return ( <
            div >
            <
            h1 > My { this.state.brand } < /h1> <
            p >
            It is a { this.state.color } { this.state.model }
            from { this.state.year }. <
            /p> <
            /div>
```

```
        );
    }
}
```

React Props

Props are arguments passed into React components.

Props are passed to components via HTML attributes.



React Props

React Props are like function arguments in JavaScript *and* attributes in HTML.

To send props into a component, use the same syntax as HTML attributes:

Example

Add a "brand" attribute to the Car element:

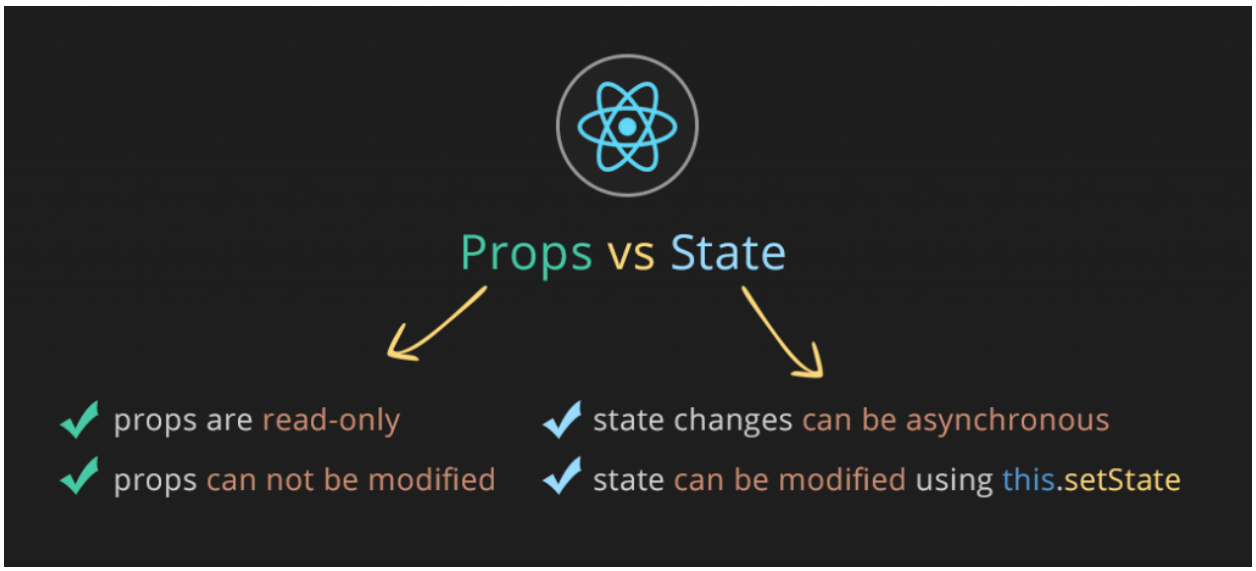
```
const myelement = <Car brand="Ford" />;
```

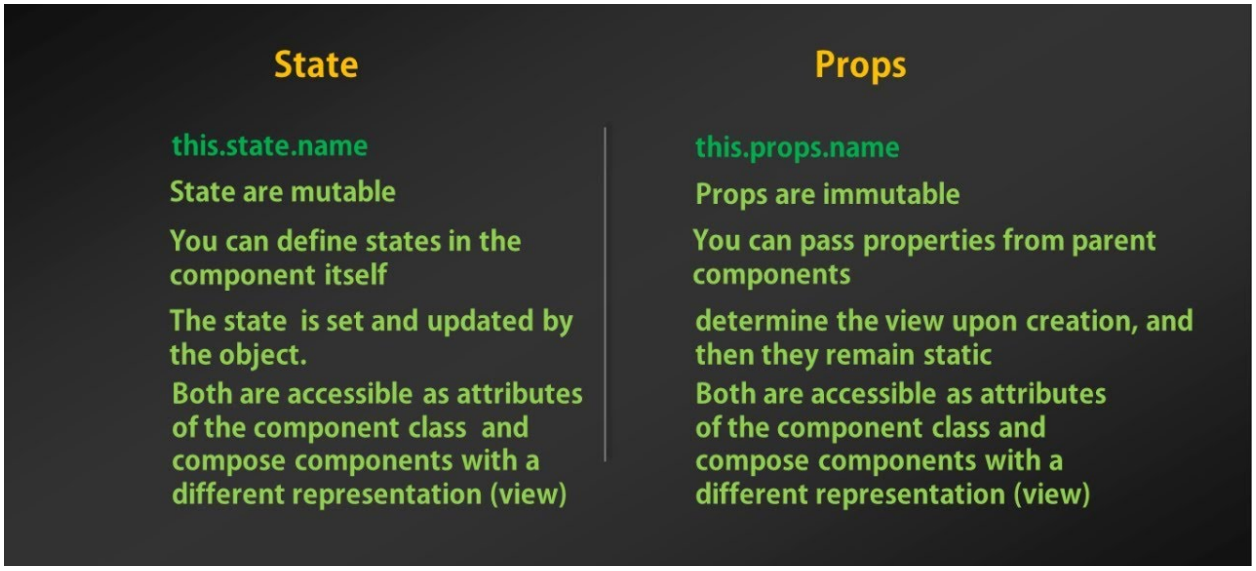
The component receives the argument as a `props` object:

Example

Use the brand attribute in the component:

```
class Car extends React.Component {

    render() {

      return <h2>I am a {this.props.brand}!</h2>;

    }

  }
```





Question For Self-Practice

https://au-assignment.s3.ap-south-1.amazonaws.com/Week_21_Day_2_Challenge-52e171df-7dad-40b2-8eef-74a28ddbc592.pdf